EPCOS

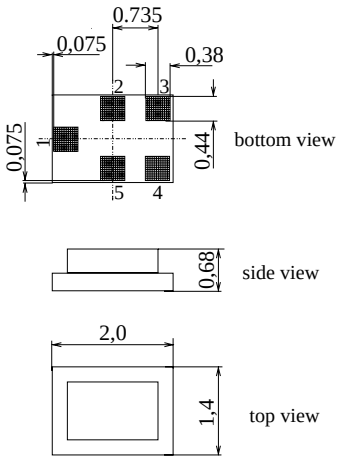
SAW Components

Data Sheet B7841

Chip Sized Saw Package

Features

- Low-loss RF filter for bluetooth
- Usable passband 83,5 MHz
- Unbalanced to unbalanced operation
- Package for **S**urface **M**ounted **T**echnology (**SMT**)



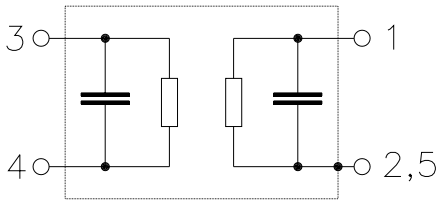
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,007g

Pin configuration

1	Input, unbalanced
4	Output, unbalanced
2,5	Case ground
3	to be grounded



Type	**Ordering code**	**Marking and Package according to**	**Packing according to**
B7841	B39242-B7841-C710	C61157-A7-A82	F61074-V8151-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T	– 40 /+ 85	˚C	
Storage temperature range	T_{stg}	– 40 /+ 85	˚C	
DC voltage	V_{DC}	3	V	
ESD voltage	V_{ESD}	50*	V	Machine Model, 10 pulses
Input power max. 2400...2483,5 MHz 824...915, 1710...1980 MHz	P_{IN}	 6 15	 dBm	 source/load impedance 50Ω

* - acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses

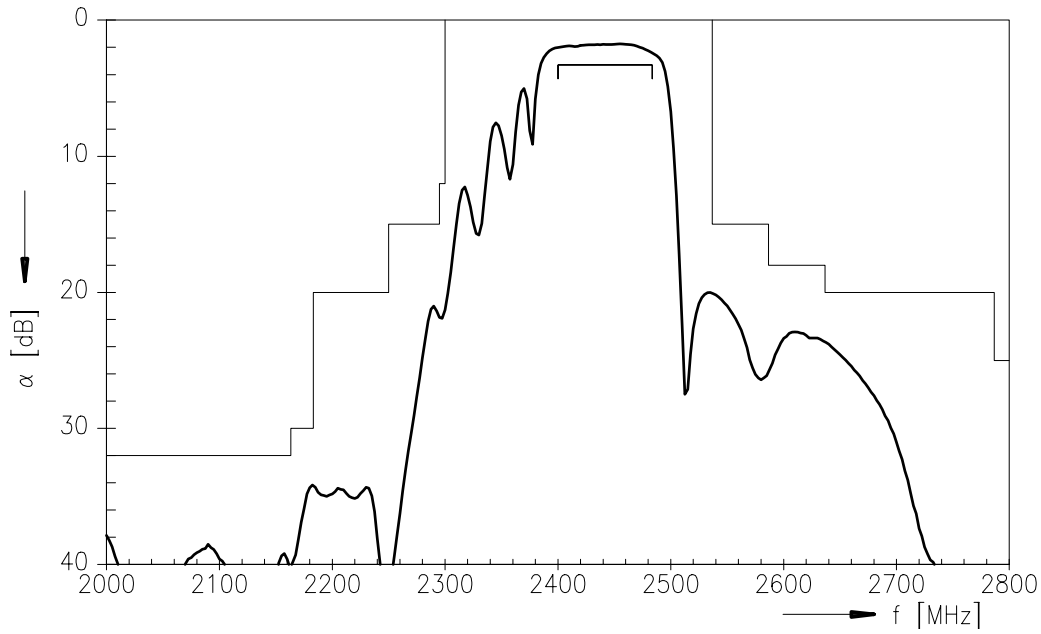
Characteristics

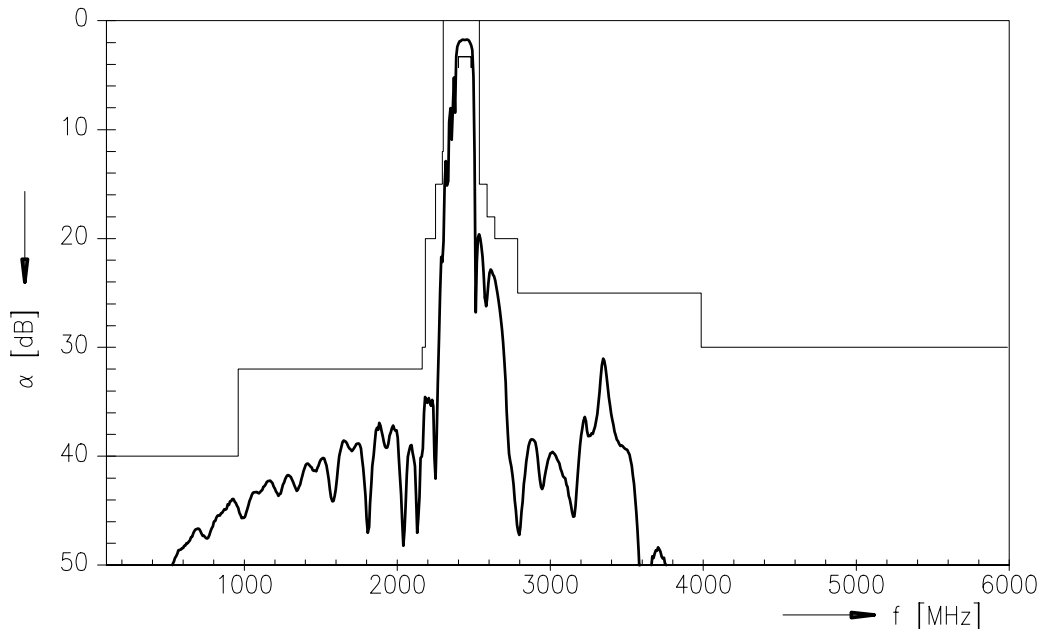
Operating temperature range: T = -40 to + 85 °C
Terminating source impedance: Z_S = 50 Ω – 1,5 nH (serial)
Terminating load impedance: Z_L = 50 Ω – 2,5 nH (serial)

		min.	typ.	max.	
Center frequency	f_c	—	2441,75	—	MHz
Maximum insertion attenuation	α_{max}				
2400,0 ... 2483,5 MHz		—	2,2	3,3	dB
Return loss					
2400,0 ... 2483,5 MHz*)		9,0	11,5	—	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
2400,0 ... 2483,5 MHz		—	0,5	1,5	dB
Attenuation	α				
100,0 ... 960,0 MHz		40	44	—	dB
960,0 ... 2150,0 MHz		32	38	—	dB
2150,0 ... 2170,0 MHz		30	36	—	dB
2170,0 ... 2250,0 MHz		20	35	—	dB
2250,0 ... 2295,0 MHz		15	21	—	dB
2295,0 ... 2300,0 MHz		12	20	—	dB
2550,0 ... 2600,0 MHz		15	20	—	dB
2600,0 ... 2650,0 MHz		18	23	—	dB
2650,0 ... 2800,0 MHz		20	24	—	dB
2800,0 ... 4000,0 MHz		25	30	—	dB
4000,0 ... 6000,0 MHz		30	50	—	dB

*) T = +25 °C

Transfer function





Published by EPCOS AG
SAW MC WT, P.O. Box 80 17 09, 81617 Munich, GERMANY
TEL +49 89 636 09, FAX +49 89 636 2 26 89

© EPCOS AG 2004. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.